| Ref<br># | Hits | Search Query   | DBs                          | Default<br>Operator | Plurals | Time Stamp       |
|----------|------|--|------------------------------|---------------------|---------|------------------|
| S3       | 12   | "6493702" and link\$3  | US-PGPUB;<br>USPAT;<br>USOCR | OR                  | ON      | 2005/12/16 16:16 |
| S2       | 2    | "6493702" and authoriz\$7                                      | US-PGPUB;<br>USPAT;<br>USOCR | OR                  | ON      | 2005/12/16 16:16 |
| S4       | 7    | "6493702" and link\$3 and tool                                 | US-PGPUB;<br>USPAT;<br>USOCR | OR                  | ON      | 2005/12/16 16:29 |
| S5       | . 5  | "6493702" and link\$3 and tool and shar\$3                     | US-PGPUB;<br>USPAT;<br>USOCR | OR                  | ON      | 2005/12/16 16:33 |
| S6       | 2402 | (shar\$3 near4 (link\$3 or book\$mark\$3)) and tool            | US-PGPUB;<br>USPAT;<br>USOCR | OR                  | ON      | 2005/12/16 16:34 |
| S7       | 13   | (shar\$3 same (link\$3 or book\$mark\$3)).ti. and tool         | US-PGPUB;<br>USPAT;<br>USOCR | OR                  | ON      | 2005/12/16 16:35 |
| S10      | 792  | (shar\$3 near4 (link\$3)).clm.                                 | US-PGPUB;<br>USPAT;<br>USOCR | OR                  | ON      | 2005/12/16 16:36 |
| S9       | 800  | (shar\$3 near4 (link\$3 or book\$mark\$3)).clm.                | US-PGPUB;<br>USPAT;<br>USOCR | OR                  | ON      | 2005/12/16 16:36 |
| S8       | 1    | (shar\$3 same (book\$mark\$3)).ti.                             | US-PGPUB;<br>USPAT;<br>USOCR | OR                  | ON      | 2005/12/16 16:36 |
| S14      | 12   | (shar\$3 same (link\$3)).ti. and tool                          | US-PGPUB;<br>USPAT;<br>USOCR | OR                  | ON      | 2005/12/16 16:37 |
| S13      | .0   | (shar\$3 same (link\$3)).ti. and tool and book\$mark\$3        | US-PGPUB;<br>USPAT;<br>USOCR | OR                  | ON      | 2005/12/16 16:37 |
| S12      | 68   | (shar\$3 same (link\$3)).ti.                                   | US-PGPUB;<br>USPAT;<br>USOCR | OR                  | ON      | 2005/12/16 16:37 |
| S11      | 48   | (shar\$3 near4 (link\$3)).ti.                                  | US-PGPUB;<br>USPAT;<br>USOCR | OR                  | ON      | 2005/12/16 16:37 |
| S17      | . 11 | (shar\$3 near4 (web near4 link\$3)) and tool and book\$mark\$3 | US-PGPUB;<br>USPAT;<br>USOCR | OR                  | ON      | 2005/12/16 16:38 |
| S15      | 71   | (shar\$3 near4 (web near4 link\$3))                            | US-PGPUB;<br>USPAT;<br>USOCR | OR                  | ON      | 2005/12/16 16:38 |

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| S16 | 31  | (shar\$3 near4 (web near4 link\$3)) and tool  | US-PGPUB;<br>USPAT;<br>USOCR | OR | ON | 2005/12/16 16:47 |
| S20 | 35  | (shar\$3 near4 (book\$mark\$3)) and tool  | US-PGPUB;<br>USPAT;<br>USOCR | OR | ON | 2005/12/16 17:07 |
| S19 | 72  | (shar\$3 near4 (book\$mark\$3))   | US-PGPUB;<br>USPAT;<br>USOCR | OR | ON | 2005/12/16 17:07 |
| S18 | 14  | (shar\$3 same (web near4 link\$3)).<br>ab.  | US-PGPUB;<br>USPAT;<br>USOCR | OR | ON | 2005/12/16 17:07 |
| S21 | 19  | (shar\$3 near4 (book\$mark\$3)) and tool and authoriz\$6                                | US-PGPUB;<br>USPAT;<br>USOCR | OR | ON | 2005/12/16 17:11 |
| S22 | 16  | (shar\$3 near4 (web near4 link\$3)) and tool and authoriz\$6                            | US-PGPUB;<br>USPAT;<br>USOCR | OR | ON | 2005/12/16 17:12 |
| S24 | · 3 | (shar\$3 near4 (url near4 link\$3))<br>and tool and authoriz\$6                         | US-PGPUB;<br>USPAT;<br>USOCR | OR | ON | 2005/12/16 17:13 |
| S23 | 545 | (shar\$3 near4 (link\$3)) and tool and authoriz\$6                                      | US-PGPUB;<br>USPAT;<br>USOCR | OR | ON | 2005/12/16 17:13 |
| S26 | 44  | (shar\$3 near4 (link\$3)) and<br>authoriz\$6 and tool and<br>book\$mark\$3              | US-PGPUB;<br>USPAT;<br>USOCR | OR | ON | 2005/12/16 17:14 |
| S25 | 5   | (shar\$3 near4 (url near4 link\$3))<br>and authoriz\$6                                  | US-PGPUB;<br>USPAT;<br>USOCR | OR | ON | 2005/12/16 17:14 |
| S27 | 29  | (shar\$3 near4 (link\$3)) and<br>authoriz\$6 and tool and<br>book\$mark\$3 and url      | US-PGPUB;<br>USPAT;<br>USOCR | OR | ON | 2005/12/16 17:26 |
| S28 | 36  | (shar\$3 near4 (link\$3)) and<br>authoriz\$6 and verif\$7 and<br>book\$mark\$3          | US-PGPUB;<br>USPAT;<br>USOCR | OR | ON | 2005/12/16 17:27 |
| S29 | 30  | (shar\$3 near4 (link\$3)) and<br>authoriz\$6 and verif\$7 and<br>book\$mark\$3 and tool | US-PGPUB;<br>USPAT;<br>USOCR | OR | ON | 2005/12/16 17:28 |
| S30 | 12  | (shar\$3 near4 (page near4 link\$3))<br>and authoriz\$6 and verif\$7                    | US-PGPUB;<br>USPAT;<br>USOCR | OR | ON | 2005/12/16 17:29 |
| S31 | 10  | (shar\$3 near4 (site near4 link\$3))<br>and authoriz\$6 and verif\$7                    | US-PGPUB;<br>USPAT;<br>USOCR | OR | ON | 2005/12/16 17:30 |

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| S33 | 72  | (shar\$3 near4 (url)) and authoriz\$6 and verif\$7                                 | US-PGPUB;<br>USPAT;<br>USOCR | OR   | ON              | 2005/12/16 17:32 |
|-----|-----|--|------------------------------|------|-----------------|------------------|
| S32 | 17  | (shar\$3 near4 (book\$mark\$3)) and authoriz\$6 and verif\$7                       | US-PGPUB;<br>USPAT;<br>USOCR | OR . | ON              | 2005/12/16 17:32 |
| S35 | 1   | (shar\$3 same (url)).ti.   | US-PGPUB;<br>USPAT;<br>USOCR | OR   | ON              | 2005/12/16 17:35 |
| S34 | 29  | (shar\$3 near4 (url)) and authoriz\$6 and verif\$7 and link\$3 and approv\$3       | US-PGPUB;<br>USPAT;<br>USOCR | OR   | ON <sub>.</sub> | 2005/12/16 17:35 |
| S38 | 0   | (shar\$3 near4 (url)) and (web near4 tool) and (verif\$7 near4 url)                | US-PGPUB;<br>USPAT;<br>USOCR | OR   | ON              | 2005/12/16 17:43 |
| S37 | 49  | (shar\$3 near4 (url)) and (web near4 tool)   | US-PGPUB;<br>USPAT;<br>USOCR | OR   | ON              | 2005/12/16 17:43 |
| S36 | 17  | (shar\$3 near10 (url)).ab.   | US-PGPUB;<br>USPAT;<br>USOCR | OR   | ON              | 2005/12/16 17:43 |
| S39 | 10  | (shar\$3 near4 (url)) and (web near4 tool) and (verif\$7)                          | US-PGPUB;<br>USPAT;<br>USOCR | OR · | ON              | 2005/12/16 17:46 |
| S42 | 0   | (shar\$3 near4 book\$mark\$3) and (verif\$7 near4 link\$3)                         | US-PGPUB;<br>USPAT;<br>USOCR | OR   | ON              | 2005/12/16 17:54 |
| S41 | 72  | (shar\$3 near4 book\$mark\$3)  | US-PGPUB;<br>USPAT;<br>USOCR | OR   | ON              | 2005/12/16 17:54 |
| S40 | 18  | "6493702"  | US-PGPUB;<br>USPAT;<br>USOCR | OR   | ON              | 2005/12/16 17:54 |
| S45 | 1   | "6321228".PN.  | USPAT;<br>USOCR              | OR   | ON              | 2005/12/16 18:20 |
| S44 | 1   | "6324566".PN.  | USPAT;<br>USOCR              | OR   | ON              | 2005/12/16 18:20 |
| S46 | 51  | (shar\$3 near4 book\$mark\$3) and (incorporat\$3)                                  | US-PGPUB;<br>USPAT;<br>USOCR | OR   | ON              | 2005/12/16 18:22 |
| S43 | . 7 | (shar\$3 near4 book\$mark\$3) and (check\$4 near4 link\$3)                         | US-PGPUB;<br>USPAT;<br>USOCR | OR   | ON              | 2005/12/16 18:22 |
| S47 | 4   | (shar\$3 near4 book\$mark\$3) and (incorporat\$3) and (check\$3 near4 redundan\$3) | US-PGPUB;<br>USPAT;<br>USOCR | OR   | ON              | 2005/12/16 18:23 |

|       |     |  |                              |      | ,  | 1                |
|-------|-----|--|------------------------------|------|----|------------------|
| S48 . | 9   | (shar\$3 near4 book\$mark\$3) and (incorporat\$3) and (web near4 tool)               | US-PGPUB;<br>USPAT;<br>USOCR | OR   | ON | 2005/12/16 18:24 |
| S50   | 173 | (shar\$3 near4 link\$3) and (web near4 tool)   | US-PGPUB;<br>USPAT;<br>USOCR | OR   | ON | 2005/12/16 18:29 |
| S49   | 12  | (shar\$3 near4 book\$mark\$3) and (web near4 tool)                                   | US-PGPUB;<br>USPAT;<br>USOCR | OR   | ON | 2005/12/16 18:29 |
| S51   | 12  | (shar\$3 near4 (web near4 link\$3))<br>and (web near4 tool)                          | US-PGPUB;<br>USPAT;<br>USOCR | OR   | ON | 2005/12/16 18:30 |
| S55   | 0   | (shar\$3 near4 (url)) and (web near4 tool) and (link\$3 near5 redundan\$3)           | US-PGPUB;<br>USPAT;<br>USOCR | OR   | ON | 2005/12/16 18:31 |
| S54   | 0   | (shar\$3 near4 (url)) and (web near4 tool) and (url near5 redundan\$3)               | US-PGPUB;<br>USPAT;<br>USOCR | OR   | ON | 2005/12/16 18:31 |
| S53   | 6   | (shar\$3 near4 (url)) and (web near4 tool) and (check\$3 near5 redundan\$3)          | US-PGPUB;<br>USPAT;<br>USOCR | OR   | ON | 2005/12/16 18:31 |
| S57   | 5   | (shar\$3 near4 (url)) and (web near4 tool) and (authoriz\$7) and verif\$7            | US-PGPUB;<br>USPAT;<br>USOCR | OR   | ON | 2005/12/16 18:32 |
| S56   | 0   | (shar\$3 near4 (url)) and (web near4 tool) and (book\$mark\$3 near5 redundan\$3)     | US-PGPUB;<br>USPAT;<br>USOCR | OR   | ON | 2005/12/16 18:32 |
| S52   | 49  | (shar\$3 near4 (url)) and (web near4 tool)   | US-PGPUB;<br>USPAT;<br>USOCR | OR   | ON | 2005/12/16 18:33 |
| S58   | 11  | (shar\$3 near4 (url)) and (web near4 tool) and (web near4 link\$3) and book\$mark\$3 | US-PGPUB;<br>USPAT;<br>USOCR | OR . | ON | 2005/12/16 18:34 |
| S59   | 16  | (shar\$3 near4 (url)) and (web near4 tool) and authoriz\$6                           | US-PGPUB;<br>USPAT;<br>USOCR | OR   | ON | 2005/12/16 18:36 |
| S62   | 0   | (shar\$3 same (url)).ti. and (web near4 tool)  | US-PGPUB;<br>USPAT;<br>USOCR | OR   | ON | 2005/12/16 18:39 |
| S61   | 0   | (shar\$3 same (url)).ti. and (web near4 tool) and approv\$3                          | US-PGPUB;<br>USPAT;<br>USOCR | OR   | ON | 2005/12/16 18:39 |
| S60   | 12  | (shar\$3 near4 (url)) and (web near4 tool) and approv\$3                             | US-PGPUB;<br>USPAT;<br>USOCR | OR   | ON | 2005/12/16 18:39 |

| S66  | 1  | (shar\$3 same (book\$mark\$3)).ti.                                   | US-PGPUB;<br>USPAT;<br>USOCR | OR   | ON  | 2005/12/16 18:40 |
|------|----|--|------------------------------|------|-----|------------------|
| S64  | 1  | (shar\$3 same (url)).ti.   | US-PGPUB;<br>USPAT;<br>USOCR | OR   | ON  | 2005/12/16 18:40 |
| S63  | 0  | (shar\$3 same (url)).ti. and (tool)                                  | US-PGPUB;<br>USPAT;<br>USOCR | OR   | ON  | 2005/12/16 18:40 |
| S68  | 8  | (shar\$3 same (link\$3)).ti. and (check\$3 near4 link\$3)            | US-PGPUB;<br>USPAT;<br>USOCR | OR   | ON  | 2005/12/16 18:41 |
| .S67 | 0  | (shar\$3 same (link\$3)).ti. and (check\$3 near4 url)                | US-PGPUB;<br>USPAT;<br>USOCR | OR   | ON  | 2005/12/16 18:41 |
| S72  | 0  | (shar\$3 same (link\$3)).ti. and book\$mark\$3                       | US-PGPUB;<br>USPAT;<br>USOCR | OR   | ON  | 2005/12/16 18:42 |
| S71  | 0  | (shar\$3 same (link\$3)).ti. and<br>book\$mark\$3 and url            | US-PGPUB;<br>USPAT;<br>USOCR | OR   | ON  | 2005/12/16 18:42 |
| S70  | 0  | (shar\$3 same (link\$3)).ti. and book\$mark\$3 and url and approv\$3 | US-PGPUB;<br>USPAT;<br>USOCR | OR.  | ON  | 2005/12/16 18:42 |
| S69  | 2  | (shar\$3 same (link\$3)).ti. and (verif\$7 near4 link\$3)            | US-PGPUB;<br>USPAT;<br>USOCR | OR   | ON  | 2005/12/16 18:42 |
| S74  | 12 | (shar\$3 same (link\$3)).ti. and "709"/\$.ccls.                      | US-PGPUB;<br>USPAT;<br>USOCR | OR   | ON  | 2005/12/16 18:44 |
| S73  | 5  | (shar\$3 same (link\$3)).ti. and url                                 | US-PGPUB;<br>USPAT;<br>USOCR | OR   | ON  | 2005/12/16 18:44 |
| S65  | 68 | (shar\$3 same (link\$3)).ti.   | US-PGPUB;<br>USPAT;<br>USOCR | OR   | ON  | 2005/12/16 18:45 |
| S75  | 4  | (shar\$3 same (link\$3)).ti. and categor\$3                          | US-PGPUB;<br>USPAT;<br>USOCR | OR   | ON  | 2005/12/19 11:57 |
| S76  | 72 | (shar\$3 near4 book\$mark\$3)  | US-PGPUB;<br>USPAT;<br>USOCR | OR · | ON  | 2005/12/19 11:58 |
| S78  | 2  | (("5726979") or ("6664978")).PN.                                     | US-PGPUB;<br>USPAT;<br>USOCR | OR   | OFF | 2005/12/19 17:08 |

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| S77 | 51 | "5726979"   | US-PGPUB;<br>USPAT;<br>USOCR | OR | ON  | 2005/12/19 17:08 |
|-----|----|---|------------------------------|----|-----|------------------|
| S79 | 2  | (("6493702") or ("20020099784")).<br>PN.  | US-PGPUB;<br>USPAT;<br>USOCR | OR | OFF | 2006/09/11 14:06 |
| S81 | 1  | ("20020188671").PN.   | US-PGPUB;<br>USPAT;<br>USOCR | OR | OFF | 2006/09/11 15:18 |
| S80 | 1  | ("20020087621").PN.   | US-PGPUB;<br>USPAT;<br>USOCR | OR | OFF | 2006/09/11 15:18 |
| S83 | 2  | S82 and (redundant)   | US-PGPUB;<br>USPAT;<br>USOCR | OR | ON  | 2006/09/11 15:33 |
| S82 | 42 | ("4839853"   "5113340"   "5265065"   "5301109"   "5317507"   "5442778"   "5446891"   "5526443"   "5592375"   "5638125"   "5638543"   "5659766"   "5687364"   "5748954"   "5749081"   "5796393"   "5802515"   "5802516"   "5813007"   "5835905"   "5847708"   "5875446"   "5907845"   "5909207"   "5918010"   "5918014"   "5924105"   "6005568"   "6029172"   "6037934"   "6041311"   "6049812"   "6052714"   "6055508"   "6085226"   "6092049"   "6098065"   "6100890"   "6138128"   "6185598").PN. | US-PGPUB;<br>USPAT;<br>USOCR | OR | ON  | 2006/09/11 15:33 |
| S84 | 3  | S82 and (duplicat\$3)   | US-PGPUB;<br>USPAT;<br>USOCR | OR | ON  | 2006/09/11 15:34 |
| S85 | 3  | S82 and (completeness)  | US-PGPUB;<br>USPAT;<br>USOCR | OR | ON  | 2006/09/11 15:36 |
| S88 | 5  | "6493702" and (redundan\$3 or duplicat\$3) and syntax   | US-PGPUB;<br>USPAT;<br>USOCR | OR | ON  | 2006/09/11 15:38 |
| S87 | 29 | "6493702"   | US-PGPUB;<br>USPAT;<br>USOCR | OR | ON  | 2006/09/11 15:38 |
| S86 | 5  | S82 and (syntax)  | US-PGPUB;<br>USPAT;<br>USOCR | OR | ON  | 2006/09/11 15:58 |

| S89      | 1         | powerllel.as.  | US-PGPUB;                                 | OR | ON  | 2006/09/11 16:56 |
|----------|-----------|--|---|----|-----|------------------|
| 309      | 1         | powernenas.  | USPAT;<br>USOCR                           |    | OIV | 2000/09/11 10:30 |
| S91      | 2         | (dustin near4 nguyen).xa. and parallel.clm.  | US-PGPUB;<br>USPAT;<br>USOCR              | OR | ON  | 2006/09/11 16:57 |
| S92      | 50        | (kenny near4 lin).xa.  | US-PGPUB;<br>USPAT;<br>USOCR              | OR | ON  | 2006/09/11 16:58 |
| S90      | <b>52</b> | (dustin near4 nguyen).xa.  | US-PGPUB;<br>USPAT;<br>USOCR              | OR | ON  | 2006/09/11 16:59 |
| S95      | 677       | parallel\$5 and lobster  | US-PGPUB;<br>USPAT;<br>USOCR              | OR | ON  | 2006/09/11 17:01 |
| S94      | 1         | "20030177240"  | US-PGPUB;<br>USPAT;<br>USOCR              | OR | ON  | 2006/09/11 17:01 |
| S93      | 1         | (dustin near4 nguyen).xa. and lobster  | US-PGPUB;<br>USPAT;<br>USOCR              | OR | ON  | 2006/09/11 17:01 |
| S97      | 40        | (web near4 tool) and identif\$6 and categor\$6 and (shar\$3 near4 link\$3) and menu and (duplicat\$3 and redundan\$3)  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | OR | ON  | 2007/02/06 11:49 |
| S96      | 139       | (web near4 tool) and identif\$6 and categor\$6 and (shar\$3 near4 link\$3)   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | OR | ON  | 2007/02/06 11:49 |
| S99      | 54        | (web near4 tool) and identif\$6 and categor\$6 and (shar\$3 near4 link\$3) and menu and (duplicat\$3 or redundan\$3) and (authoriz\$6 or authenticat\$5)               | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | OR | ON  | 2007/02/06 11:50 |
| S98      | 72        | (web near4 tool) and identif\$6 and categor\$6 and (shar\$3 near4 link\$3) and menu and (duplicat\$3 or redundan\$3)   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | OR | ON  | 2007/02/06 11:50 |
| S10<br>0 | 41        | (web near4 tool) and identif\$6 and categor\$6 and (shar\$3 near4 link\$3) and menu and (duplicat\$3 or redundan\$3) and (authoriz\$6 or authenticat\$5) and launch\$3 | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | OR | ON  | 2007/02/06 11:54 |
| S10<br>1 | 17        | (web near4 tool) and (shar\$3 near4 web near5 link\$3)   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | OR | ON  | 2007/02/06 11:58 |

| S10<br>2 | 38   | "6493702"  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | OR | ON | 2007/02/06 11:59 |
|----------|------|--|---|----|----|------------------|
| S10<br>3 | 3    | "6493702" and shar\$3 and (authoriz\$6 or authenticat\$5)  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | OR | ON | 2007/02/06 12:01 |
| S10<br>4 | 10   | "6493702" and shar\$3 and (duplicat\$3 or redundan\$3)   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | OR | ON | 2007/02/06 12:03 |
| S10<br>5 | 4350 | (shar\$3 near4 (book\$mark or link\$3)) and (duplicat\$5 or redundan\$5)   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | OR | ON | 2007/02/06 12:04 |
| S10<br>6 | 201  | (shar\$3 near4 (book\$mark or link\$3)) and ((check\$3 or verif\$7) near5 (duplicat\$5 or redundan\$5)) and (authoriz\$5 or authenticat\$5)                                    | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | OR | ON | 2007/02/06 12:05 |
| S10<br>8 | 57   | (shar\$3 near4 (book\$mark or link\$3)) and ((check\$3 or verif\$7) near5 (duplicat\$5 or redundan\$5)) and (user near4 (authoriz\$5 or authenticat\$5)) and (@ad<="20010613") | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | OR | ON | 2007/02/06 12:06 |
| S10<br>9 | 121  | (shar\$3 same (book\$mark or link\$3)).ti.   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | OR | ON | 2007/02/06 13:56 |
| S10<br>7 | 99   | (shar\$3 near4 (book\$mark or link\$3)) and ((check\$3 or verif\$7) near5 (duplicat\$5 or redundan\$5)) and (user near4 (authoriz\$5 or authenticat\$5))                       | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | OR | ON | 2007/02/06 13:56 |
| S11<br>1 | 635  | (shar\$3 same (book\$mark or link\$3 or url)).ab. and (duplicat\$3 or redundan\$3)   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | OR | ON | 2007/02/06 13:58 |
| S11<br>0 | 21   | (shar\$3 same (book\$mark or link\$3 or url)).ti. and (duplicat\$3 or redundan\$3)   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | OR | ΟŅ | 2007/02/06 13:58 |
| S11<br>2 | 182  | (shar\$3 near5 (book\$mark or link\$3 or url)).ab. and (duplicat\$3 or redundan\$3)  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | OR | ON | 2007/02/06 13:59 |

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|----------|------|---|---|------|-----|------------------|
| S11<br>3 | 10   | (shar\$3 near5 (book\$mark or link\$3 or url) same (duplicat\$3 or redundan\$3)).ab.  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | OR   | ON  | 2007/02/06 14:00 |
| S11<br>5 | 196  | (manag\$6 same shar\$3 same<br>(book\$mark or link\$3 or url) same<br>(duplicat\$3 or redundan\$3))                         | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | OR   | ON  | 2007/02/06 14:02 |
| S11<br>4 | 23   | (manag\$6 near5 (book\$mark or link\$3 or url) same (duplicat\$3 or redundan\$3)).ab.                                       | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | OR   | ON  | 2007/02/06 14:02 |
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1 Level II technical support in a distributed computing environment

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Tim Leehane

September 1996 Proceedings of the 24th annual ACM SIGUCCS conference on User services SIGUCCS '96

Publisher: ACM Press

Full text available: pdf(5.73 MB)

Additional Information: full citation, references, index terms

<sup>2</sup> Electronic document addressing: dealing with change



Helen Ashman

September 2000 ACM Computing Surveys (CSUR), Volume 32 Issue 3

**Publisher: ACM Press** 

Full text available: pdf(92.20 KB)

Additional Information: <u>full citation</u>, <u>appendices and supplements</u>, <u>abstract</u>, <u>references</u>, <u>cited by</u>, <u>index terms</u>, <u>review</u>

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Keywords: 404, link, link integrity

3 Industry track: Deploying a personalized time management agent

Pauline Berry, Bart Peintner, Ken Conley, Melinda Gervasio, Tomás Uribe, Neil Yorke-Smith May 2006 Proceedings of the fifth international joint conference on Autonomous agents and multiagent systems AAMAS '06

Publisher: ACM Press

Full text available: pdf(529.45 KB) Additional Information: full citation, abstract, references, index terms

We report on our ongoing practical experience in designing, implementing, and deploying PTIME, a personalized agent for time management and meeting scheduling in an open, multi-agent environment. In developing PTIME as part of a larger assistive agent called CALO, we have faced numerous challenges, including usability, multi-agent coordination, scalable constraint reasoning, robust execution, and unobtrusive learning. Our research advances basic solutions to the fundamental problems; however, in ...

Keywords: deployment, personal assistants, scheduling, user interfaces

Human and Social Factors of Software Engineering (HSSE): Supporting distributed



software design meetings: what can we learn from co-located meetings? Uri Dekel

May 2005 ACM SIGSOFT Software Engineering Notes, Proceedings of the 2005 workshop on Human and social factors of software engineering HSSE '05, Volume 30 Issue 4

Publisher: ACM Press

Full text available: pdf(125.07 KB)

Additional Information: full citation, abstract, references, citings, index

Although virtual conferencing tools have been successfully used in executive meetings, current tools appear inadequate for the needs of software designers. As a result, while distributed code writing is becoming widespread, almost all software design meetings are still carried out face-to-face incurring costs that undermine the potential of distributed software development. Our research strives to build successful tools for supporting distributed software design meetings. To do so, we must first ...

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Relevance scale

Fast detection of communication patterns in distributed executions

Thomas Kunz, Michiel F. H. Seuren

November 1997 Proceedings of the 1997 conference of the Centre for Advanced Studies on Collaborative research CASCON '97

Publisher: IBM Press

Full text available: pdf(4.21 MB)

Additional Information: full citation, abstract, references, index terms

Understanding distributed applications is a tedious and difficult task. Visualizations based on process-time diagrams are often used to obtain a better understanding of the execution of the application. The visualization tool we use is Poet, an event tracer developed at the University of Waterloo. However, these diagrams are often very complex and do not provide the user with the desired overview of the application. In our experience, such tools display repeated occurrences of non-trivial commun ...

2 Artificial intelligence

Elaine Rich

January 1983 Book

Publisher: McGraw-Hill, Inc.

Additional Information: full citation, abstract, references, cited by, review

The goal of this book is to provide programmers and computer scientists with a readable introduction to the problems and techniques of artificial intelligence (A.I.). The book can be used either as a text for a course on A.I. or as a self-study guide for computer professionals who want to learn what A.I. is all about.

The book was designed as the text for a one-semester, introductory graduate course in A.I. In such a course, it should be possible to cover all of the material in the boo ...

3 Classics in software engineering

January 1979 Divisible Book Publisher: Yourdon Press

Full text available: pdf(22.45 MB) Additional Information: full citation, cited by, index terms

Visualizing geospatial data

Theresa Marie Rhyne, Alan MacEachren, Theresa-Marie Rhyne



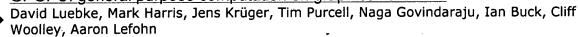
## August 2004 ACM SIGGRAPH 2004 Course Notes SIGGRAPH '04

Publisher: ACM Press

Full text available: pdf(14.01 MB) Additional Information: full citation, abstract

This course reviews concepts and highlights new directions in GeoVisualization. We review four levels of integrating geospatial data and geographic information systems (GIS) with scientific and information visualization (VIS) methods. These include: • Rudimentary: minimal data sharing between the GIS and Vis systems. Operational: consistency of geospatial data. Functional: transparent communication between the GIS and Vis systems. Merged: one comprehensive toolkit environmentW ...

5 GPGPU: general purpose computation on graphics hardware



August 2004 ACM SIGGRAPH 2004 Course Notes SIGGRAPH '04

Publisher: ACM Press

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The graphics processor (GPU) on today's commodity video cards has evolved into an extremely powerful and flexible processor. The latest graphics architectures provide tremendous memory bandwidth and computational horsepower, with fully programmable vertex and pixel processing units that support vector operations up to full IEEE floating point precision. High level languages have emerged for graphics hardware, making this computational power accessible. Architecturally, GPUs are highly parallel s ...

6 Enhancing teaching using the Internet: report of the working group on the World Wide



Web as an interactive teaching resource

Stephen Hartley, Jill Gerhardt-Powals, David Jones, Colin McCormack, M. Dee Medley, Blaine Price, Margaret Reek, Marguerite K. Summers

June 1996 ACM SIGCSE Bulletin , ACM SIGCUE Outlook , Proceedings of the 1st conference on Integrating technology into computer science education

ITICSE '96, Volume 28, 24 Issue SI, 1-3

Publisher: ACM Press

Full text available: pdf(1.26 MB)

Additional Information: full citation, references, citings, index terms

Level II technical support in a distributed computing environment



Tim Leehane

September 1996 Proceedings of the 24th annual ACM SIGUCCS conference on User services SIGUCCS '96

Publisher: ACM Press

Additional Information: full citation, references, index terms Full text available: pdf(5.73 MB)

Crowd and group animation

Daniel Thalmann, Christophe Hery, Seth Lippman, Hiromi Ono, Stephen Regelous, Douglas

August 2004 ACM SIGGRAPH 2004 Course Notes SIGGRAPH '04

**Publisher: ACM Press** 

Full text available: pdf(20.19 MB) Additional Information: full citation, abstract

A continuous challenge for special effects in movies is the production of realistic virtual crowds, in terms of rendering and behavior. This course will present state-of-the-art techniques and methods. The course will explain in details the different approaches to create virtual crowds: particle systems with flocking techniques using attraction and

repulsion forces, copy and pasting techniques, agent-based methods. The architecture of software tools will be presented including the MASSIVE softwa ...

9 Reusable software components

Trudy Levine

July 1996 ACM SIGAda Ada Letters, Volume XVI Issue 4

Publisher: ACM Press

Full text available: pdf(2.45 MB) Additional Information: full citation, index terms

10 Information systems outsourcing: a survey and analysis of the literature

Jens Dibbern, Tim Goles, Rudy Hirschheim, Bandula Jayatilaka November 2004 **ACM SIGMIS Database**, Volume 35 Issue 4

Publisher: ACM Press

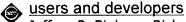
Full text available: pdf(1.51 MB) Additional Information: full citation, abstract, references, citings

In the last fifteen years, academic research on information systems (IS) outsourcing has evolved rapidly. Indeed the field of outsourcing research has grown so fast that there has been scant opportunity for the research community to take a collective breath, and complete a global assessment of research activities to date. This paper seeks to address this need by exploring and synthesizing the academic literature on IS outsourcing. It offers a roadmap of the IS outsourcing literature, highligh ...

**Keywords**: determinants, literature review, outcomes, outsourcing, relationships, research approaches, theoretical foundations

11 Web 2.0 in development: Accessmonkey: a collaborative scripting framework for web





Jeffrey P. Bigham, Richard E. Ladner

May 2007 Proceedings of the 2007 international cross-disciplinary conference on Web accessibility (W4A) W4A '07

**Publisher: ACM Press** 

Full text available: pdf(941.14 KB) Additional Information: full citation, abstract, references, index terms

Efficient access to web content remains elusive for individuals accessing the web using assistive technology. Previous efforts to improve web accessibility have focused on developer awareness, technological improvement, and legislation, but these approaches have left remaining concerns. First, while many tools can help produce accessible content, these tools are generally difficult to integrate into existing developer workflows and rarely offer specific suggestions that developers can impleme ...

**Keywords**: accessmonkey, alternative text, greasemonkey, web accessibility, web scripting, web transcoding

12 <u>Managing Intranet technology in an organizational context: toward a "stages of growth" model for balancing empowerment and control</u>

Aidan Duane, Pat Finnegan

December 2000 Proceedings of the twenty first international conference on Information systems ICIS '00

Publisher: Association for Information Systems

Full text available: 🔁 pdf(194.59 KB) Additional Information: full citation, references, citings, index terms

13 Columns: Risks to the public in computers and related systems

Peter G. Neumann

January 2001 ACM SIGSOFT Software Engineering Notes, Volume 26 Issue 1

Publisher: ACM Press

Full text available: pdf(3.24 MB) Additional Information: full citation

14 Process migration



Publisher: ACM Press

Full text available: pdf(1.24 MB)

Additional Information: full citation, abstract, references, citings, index terms, review

Process migration is the act of transferring a process between two machines. It enables dynamic load distribution, fault resilience, eased system administration, and data access locality. Despite these goals and ongoing research efforts, migration has not achieved widespread use. With the increasing deployment of distributed systems in general, and distributed operating systems in particular, process migration is again receiving more attention in both research and product development. As hi ...

**Keywords**: distributed operating systems, distributed systems, load distribution, process migration

15 CART: a computer aided reengineering tool based on business value

complementarity theory

C.-H. Sophie Lee, C. Jinshong Hwang, Anitesh Barua, Andrew B. Whinston
February 1995 Proceedings of the 1995 ACM 23rd annual conference on Computer science CSC '95

Publisher: ACM Press

Full text available: pdf(1.15 MB)

Additional Information: full citation, references, index terms

16 Flexible coordination with cooperative hypertext

Weigang Wang, Jörg M. Haake

May 1998 Proceedings of the ninth ACM conference on Hypertext and hypermedia: links, objects, time and space---structure in hypermedia systems: links, objects, time and space---structure in hypermedia systems HYPERTEXT '98

Publisher: ACM Press

Full text available: pdf(1.69 MB) Additional Information: full citation, references, citings, index terms

17 Recommender systems: SuggestBot: using intelligent task routing to help people find

work in wikipedia

Dan Cosley, Dan Frankowski, Loren Terveen, John Riedl

January 2007 Proceedings of the 12th international conference on Intelligent user interfaces IUI '07

Publisher: ACM Press

Full text available: pdf(266.47 KB) Additional Information: full citation, abstract, references, index terms

Member-maintained communities ask their users to perform tasks the community needs. From Slashdot, to IMDb, to Wikipedia, groups with diverse interests create communitymaintained artifacts of lasting value (CALV) that support the group's main purpose and provide value to others. Said communities don't help members find work to do, or do so without regard to individual preferences, such as Slashdot assigning meta-moderation randomly. Yet social science theory suggests that reducing the cost and ...

**Keywords**: Wikipedia, intelligent task routing, member-maintained communities, online communities, recommender systems

18 Building real-time groupware with GroupKit, a groupware toolkit

Mark Roseman, Saul Greenberg

March 1996 ACM Transactions on Computer-Human Interaction (TOCHI), Volume 3 Issue

**Publisher: ACM Press** 

Full text available: pdf(2.74 MB)

Additional Information: full citation, abstract, references, citings, index terms, review

This article presents an overview of GroupKit, a groupware toolkit that lets developers build applications for synchronous and distributed computer-based conferencing. GroupKit was constructed from our belief that programming groupware should be only slightly harder than building functionally similar single-user systems. We have been able to significantly reduce the implementation complexity of groupware through the key features that comprise GroupKit. A runtime infrastructure

Keywords: GroupKit, computer-supported cooperative work, groupware toolkits, synchronous groupware, user interface toolkits

19 Digital preservation: Mediating team work for digital heritage archiving





Jyi-shane Liu, Mu-Hsi Tseng

June 2004 Proceedings of the 4th ACM/IEEE-CS joint conference on Digital libraries **JCDL '04** 

Publisher: ACM Press

Full text available: pdf(2.21 MB) Additional Information: full citation, abstract, references, index terms

Building digital heritage requires substantial resources in materials, expertise, tools, and cost. Projects supported by governments and academics can only cover a small part of the world's heritage in both time and space dimensions. The preservation coverage problem is most serious in domains where sources of intellectual and cultural heritage may diminish or disappear over time. A central notion that helps resolve these issues is to facilitate global reach of digital technology to sources of v ...

**Keywords**: digital preserving and archiving, multimedia subject archiving, ontology, team work

20 High dynamic range imaging



August 2004 ACM SIGGRAPH 2004 Course Notes SIGGRAPH '04

Publisher: ACM Press

Full text available: pdf(20.22 MB) Additional Information: full citation, abstract

Current display devices can display only a limited range of contrast and colors, which is one of the main reasons that most image acquisition, processing, and display techniques use no more than eight bits per color channel. This course outlines recent advances in high-dynamic-range imaging, from capture to display, that remove this restriction,

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The evolution of Coda



M. Satyanarayanan

May 2002 ACM Transactions on Computer Systems (TOCS), Volume 20 Issue 2

Publisher: ACM Press

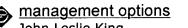
Full text available: pdf(441.35 KB)

Additional Information: full citation, abstract, references, citings, index

Failure-resilient, scalable, and secure read-write access to shared information by mobile and static users over wireless and wired networks is a fundamental computing challenge. In this article, we describe how the Coda file system has evolved to meet this challenge through the development of mechanisms for server replication, disconnected operation, adaptive use of weak connectivity, isolation-only transactions, translucent caching, and opportunistic exploitation of hardware surrogates. For eac ...

Keywords: Adaptation, Linux, UNIX, Windows, caching, conflict resolution, continuous data access, data staging, disaster recovery, disconnected operation, failure, high availability, hoarding, intermittent networks, isolation-only transactions, low-bandwidth networks, mobile computing, optimistic replica control, server replication, translucent cache management, weakly connected operation

22 Centralized versus decentralized computing: organizational considerations and



John Leslie King

December 1983 ACM Computing Surveys (CSUR), Volume 15 Issue 4

Publisher: ACM Press

Additional Information: full citation, references, citings, index terms Full text available: pdf(3.09 MB)

23 The use of goals to surface requirements for evolving systems

Annie I. Antón, Colin Potts

April 1998 Proceedings of the 20th international conference on Software engineering

**ICSE '98** 

Publisher: IEEE Computer Society

Full text available: pdf(1.19 MB) Additional Information: full citation, references, citings, index terms

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24 Developing trust in internet commerce

Ildemaro Araujo, Iván Araujo

October 2003 Proceedings of the 2003 conference of the Centre for Advanced Studies on Collaborative research CASCON '03

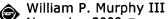
Publisher: IBM Press

Full text available: pdf(140.49 KB)

Additional Information: full citation, abstract, references, citings, index terms

Since the success of Web-based businesses depends essentially on their customers, consumers' trust is critical for Internet commerce. This article outlines essential issues that may affect customers' trust on Web sites or vendors. It also discusses key elements that can be used to improve the visitors' sense of trustworthiness on Web sites.

25 EMS: a homegrown identity management system



November 2006 Proceedings of the 34th annual ACM SIGUCCS conference on User services SIGUCCS '06

Publisher: ACM Press

Full text available: pdf(260.80 KB) Additional Information: full citation, abstract, index terms

In 2005 Salem State College upgraded a nine year old email system to Novell's GroupWise. In addition, the College had recently implemented a One Card, web portal, and student administration systems. As we moved forward with these initiatives, we hoped to establish formal user management policies. An IT audit identified a number of problems which needed to be addressed. In the past each IT system was isolated, so users could have different usernames in each system and there were no policies for ad ...

Keywords: HR, ID, MySQL, PHP, email, employee, human resources, identity, inventory, peoplesoft, username, web, web-based, website

26 Report of the national workshop on internet voting: issues and research agenda C. D. Mote

May 2002 Proceedings of the 2002 annual national conference on Digital government research dg.o '02

Publisher: Digital Government Research Center

Full text available: pdf(539.99 KB) Additional Information: full citation

27 Report of the national workshop on internet voting: issues and research agenda C. D. Mote

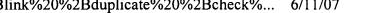
May 2000 Proceedings of the 2000 annual national conference on Digital government research dg.o '00

Publisher: Digital Government Research Center

Full text available: pdf(539.99 KB) Additional Information: full citation, abstract

As use of the Internet in commerce, education and personal communication has become common, the question of Internet voting in local and national elections naturally arises. In addition to adding convenience and precision, some believe that Internet voting may reverse the historical and downward trend of voter turnout in the United States. For these reasons President Clinton issued a memorandum in December 1999 requesting that the National Science Foundation examine the feasibility of online (In ...





28 Network management platform based on mobile agents

Rayan Stephan, Pradeep Ray, N. Paramesh

January 2004 International Journal of Network Management, Volume 14 Issue 1

Publisher: John Wiley & Sons, Inc.

Full text available: pdf(207.49 KB)

Additional Information: full citation, abstract, references, index terms, review

Many of the modern network management solutions are based on commercially available management platforms. These platforms offer common management services, such as support for multiple-management protocols, alarm management, and event correlation. Most of these platforms are based on the traditional manager--agent model adopted in standard protocols, such as Internet SNMP. However, these platforms suffer from limitations imposed by the centralized, static, polling-based management model of SNMP,

29 Collaborative software engineering: Designing task visualizations to support the





coordination of work in software development

Christine A. Halverson, Jason B. Ellis, Catalina Danis, Wendy A. Kellogg November 2006 Proceedings of the 2006 20th anniversary conference on Computer supported cooperative work CSCW '06

Publisher: ACM Press

Full text available: pdf(541.51 KB) Additional Information: full citation, abstract, references, index terms

Software development tools primarily focus on supporting the technical work. Yet no matter the tools employed, the process followed, or the size of the team, important aspects of development are non-technical, and largely unsupported. For example, increasing distribution of development teams highlights the issues of coordination and cooperation. This paper focuses on one area: managing change requests. Interviews with industry and open-source programmers were used to create designs for the visua ...

**Keywords**: change tracking systems, coordination of work, information visualization, social visualization, software development, task visualization

30 Models: Process inheritance and instance modification





**Guangxin Yang** 

November 2003 Proceedings of the 2003 international ACM SIGGROUP conference on Supporting group work GROUP '03

**Publisher: ACM Press** 

Full text available: pdf(376.03 KB)

Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>citings</u>, <u>index</u> terms

Process technologies play an increasingly important role as the world is being digitalized in nearly every corner. The major obstacles to their massive deployment include reusability and adaptivity. This paper addresses the two crucial problems with one single solution: process inheritance. We discuss what process inheritance is, what mechanisms are needed to support it, and how it can be used to handle exceptions effectively. The ideas and mechanisms are implemented in the runtime system of a p ...

**Keywords**: dynamic modification, inheritance, process language

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Relevance scale

Electronic document addressing: dealing with change

Helen Ashman

September 2000 ACM Computing Surveys (CSUR), Volume 32 Issue 3

Publisher: ACM Press

Full text available: pdf(92.20 KB)

Additional Information: <u>full citation</u>, <u>appendices and supplements</u>, <u>abstract</u>, <u>references</u>, <u>cited by</u>, <u>index terms</u>, <u>review</u>

The management of electronic document collections is fundamentally different from the management of paper documents. The ephemeral nature of some electronic documents means that the document address (i.e., reference details of the document) can become incorrect some time after coming into use, resulting in references, such as index entries and hypertext links, failing to correctly address the document they describe. A classic case of invalidated references is on the World Wide Web—lin ...

Keywords: 404, link, link integrity

<sup>2</sup> m-links: An infrastructure for very small internet devices

**③** 

Bill N. Schilit, Jonathan Trevor, David M. Hilbert, Tzu Khiau Koh

July 2001 Proceedings of the 7th annual international conference on Mobile computing and networking MobiCom '01

Publisher: ACM Press

Full text available: pdf(680.78 KB)

Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>citings</u>, <u>index</u> terms

In this paper we describe the Mobile Link (m-Links) infrastructure for utilizing existing World Wide Web content and services on wireless phones and other very small Internet terminals. Very small devices, typically with 3-20 lines of text, provide portability and other functionality while sacrificing usability as Internet terminals. In order to provide access on such limited hardware we propose a small device web navigation model that is more appropriate than the desktop computer's web brows ...

Keywords: middleware, proxy, web phones, wireless, wireless web

3

Research sessions: Research 12: Linking & search: Efficient and decentralized

PageRank approximation in a peer-to-peer web search network

Josiane Xavier Parreira, Debora Donato, Sebastian Michel, Gerhard Weikum

September 2006 Proceedings of the 32nd international conference on Very large data bases - Volume 32 VLDB'2006

Publisher: VLDB Endowment

Full text available: pdf(945.45 KB) Additional Information: full citation, abstract, references, index terms

PageRank-style (PR) link analyses are a cornerstone of Web search engines and Web mining, but they are computationally expensive. Recently, various techniques have been proposed for speeding up these analyses by distributing the link graph among multiple sites. However, none of these advanced methods is suitable for a fully decentralized PR computation in a peer-to-peer (P2P) network with autonomous peers, where each peer can independently crawl Web fragments according to the user's thematic int ...

4 Combinators for bidirectional tree transformations: A linguistic approach to the view-



update problem

J. Nathan Foster, Michael B. Greenwald, Jonathan T. Moore, Benjamin C. Pierce, Alan Schmitt May 2007 ACM Transactions on Programming Languages and Systems (TOPLAS), Volume 29 Issue 3

Publisher: ACM Press

Full text available: pdf(1.06 MB)

Additional Information: full citation, appendices and supplements, abstract, references, index terms

We propose a novel approach to the view-update problem for tree-structured data: a domain-specific programming language in which all expressions denote bidirectional transformations on trees. In one direction, these transformations---dubbed lenses---map a concrete tree into a simplified abstract view; in the other, they map a modified abstract view, together with the original concrete tree, to a correspondingly modified concrete tree. Our design emphasizes both robustness and ea ...

Keywords: Bidirectional programming, Harmony, XML, lenses, view update problem

Supporting cooperative and personal surfing with a desktop assistant



Hannes Marais, Krishna Bharat

October 1997 Proceedings of the 10th annual ACM symposium on User interface software and technology UIST '97

**Publisher: ACM Press** 

Full text available: pdf(1.37 MB)

Additional Information: full citation, references, citings, index terms

Keywords: WWW, annotation, asynchronous, barcodes, bookmarks, browser, browserware, collaboration, community knowledge, desktop assistant, indexing

Level II technical support in a distributed computing environment



Tim Leehane

September 1996 Proceedings of the 24th annual ACM SIGUCCS conference on User services SIGUCCS '96

Publisher: ACM Press

Full text available: pdf(5.73 MB)

Additional Information: full citation, references, index terms

Conjunction as composition Pamela Zave, Michael Jackson



October 1993 ACM Transactions on Software Engineering and Methodology (TOSEM),

Volume 2 Issue 4

Publisher: ACM Press

Full text available: pdf(2.17 MB)

Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>citings</u>, <u>index</u> terms, <u>review</u>

Partial specifications written in many different specification languages can be composed if they are all given semantics in the same domain, or alternatively, all translated into a common style of predicate logic. The common semantic domain must be very general, the particular semantics assigned to each specification language must be conducive to composition, and there must be some means of communication that enables specifications to build on one another. The criteria for success are that ...

**Keywords**: compositional specification, multiparadigm specification, practical specification

8 Research papers: SweetWiki: semantic web enabled technologies in Wiki



Michel Buffa, Fabien Gandon
August 2006 Proceedings of the 2006 international symposium on

August 2006 Proceedings of the 2006 international symposium on Wikis WikiSym '06 Publisher: ACM Press

Full text available: pdf(972.22 KB) Additional Information: full citation, abstract, references, index terms

Wikis are social web sites enabling a potentially large number of participants to modify any page or create a new page using their web browser. As they grow, wikis may suffer from a number of problems (anarchical structure, aging navigation paths, etc.). We believe that semantic wikis can improve navigation and search. In SweetWiki we investigate the use of semantic web technologies to support and ease the lifecycle of the wiki. The very model of wikis was declaratively described: an OWL schema ...

**Keywords**: Web 2.0, Wiki, ontology, semantic web, social tagging

9 Knowledge Management I: Stimulating knowledge discovery and sharing



A. Agostini, S. Albolino, G. De Michelis, F. De Paoli, R. Dondi November 2003 Proceedings of the 2003 international ACM S

November 2003 Proceedings of the 2003 international ACM SIGGROUP conference on Supporting group work GROUP '03

**Publisher: ACM Press** 

Full text available: pdf(505.94 KB)

Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>citings</u>, <u>index</u> terms

Most of the available knowledge management systems pay little attention to two important aspects: the need of supporting emerging communities of interest together with the official organizational structure; and the need of cluing together knowledge associated with any kind of involved entity including people, communities, and informal knowledge. The MILK system enhances knowledge discovery and sharing by providing services addressing these aspects and supplying innovative interfaces and interact ...

**Keywords**: communities, knowledge management, personalized and adaptive systems, profiling

10 Tools & techniques track: supporting classification: HiBO: a system for automatically



organizing bookmarks

Pavlos Kokosis, Vlassis Krikos, Sofia Stamou, Dimitris Christodoulakis
June 2005 Proceedings of the 5th ACM/IEEE-CS joint conference on Digital libraries
JCDL '05

Publisher: ACM Press

Full text available: pdf(164.73 KB) Additional Information: full citation, abstract, references, index terms

In this paper, we introduce the HiBO bookmark management system. HiBO aims at extending the populated personal repositories (aka bookmarks) by automatically organizing their contents into topics, through the use of a built-in subject hierarchy. HiBO offers customized personalized services, such as the meaningful grouping and ordering of bookmarks within the hierarchy's topics in terms of the bookmarks' conceptual similarity to each other. HiBO also provides a framework that allows the user to cu ...

Keywords: bookmarks hierarchical organization, categorization, ordering

11 Extending Java for high-level Web service construction

Aske Simon Christensen, Anders Møller, Michael I. Schwartzbach

November 2003 ACM Transactions on Programming Languages and Systems (TOPLAS), Volume 25 Issue 6

Publisher: ACM Press

Additional Information: full citation, abstract, references, citings, index Full text available: pdf(947.02 KB)

We incorporate innovations from the <br/>bigwig> project into the Java language to provide high-level features for Web service programming. The resulting language, JWIG, contains an advanced session model and a flexible mechanism for dynamic construction of XML documents, in particular XHTML. To support program development we provide a suite of program analyses that at compile time verify for a given program that no runtime errors can occur while building documents or receiving form input, and ...

Keywords: Interactive Web services, XML, data-flow analysis

12 Multimedia document presentation, information extraction, and document formation in



MINOS: a model and a system

S. Christodoulakis, M. Theodoridou, F. Ho, M. Papa, A. Pathria

December 1986 ACM Transactions on Information Systems (TOIS), Volume 4 Issue 4

**Publisher: ACM Press** 

Additional Information: full citation, abstract, references, citings, index Full text available: pdf(3.16 MB) terms, review

MINOS is an object-oriented multimedia information system that provides integrated facilities for creating and managing complex multimedia objects. In this paper the model for multimedia documents supported by MINOS and its implementation is described. Described in particular are functions provided in MINOS that exploit the capabilities of a modern workstation equipped with image and voice input-output devices to accomplish an active multimedia document presentation and browsing within docu ...

13 Trustworthy 100-year digital objects: Evidence after every witness is dead

Henry M. Gladney

July 2004 ACM Transactions on Information Systems (TOIS), Volume 22 Issue 3

Publisher: ACM Press

Additional Information: full citation, abstract, references, citings, index Full text available: pdf(1.24 MB) terms

In ancient times, wax seals impressed with signet rings were affixed to documents as evidence of their authenticity. A digital counterpart is a message authentication code fixed firmly to each important document. If a digital object is sealed together with its own audit trail, each user can examine this evidence to decide whether to trust the content---no

matter how distant this user is in time, space, and social affiliation from the document's source. We propose an architecture and design that a ...

14 Annotations: Advene: active reading through hypervideo

Olivier Aubert, Yannick Prié

September 2005 Proceedings of the sixteenth ACM conference on Hypertext and hypermedia HYPERTEXT '05

Publisher: ACM Press

Additional Information: full citation, abstract, references, citings, index Full text available: pdf(665.67 KB)

Active reading and hypermedia usage are an integral part of scholar daily practices, but the full exploitation of their potentialities still lies far ahead. In the search for new methods and tools, we focus in this article on the use of audiovisual material in a scholar context. One of the results of active reading applied to audiovisual material can be hypervideos, that we define as views on audiovisual documents associated with an annotation structure. The notion of hypervideo is useful to ana ...

Keywords: advene, annotation, audiovisual information visualisation, document template, hypervideo, sharing, time and synchronisation

15 Combinators for bi-directional tree transformations: a linguistic approach to the view



update problem

J. Nathan Foster, Michael B. Greenwald, Jonathan T. Moore, Benjamin C. Pierce, Alan Schmitt January 2005 ACM SIGPLAN Notices, Proceedings of the 32nd ACM SIGPLAN-SIGACT symposium on Principles of programming languages POPL '05, Volume 40 Issue 1

Publisher: ACM Press

Additional Information: full citation, abstract, references, citings, index Full text available: pdf(278.24 KB)

We propose a novel approach to the well-known view update problem for the case of treestructured data: a domain-specific programming language in which all expressions denote bi-directional transformations on trees. In one direction, these transformations---dubbed lenses---map a "concrete" tree into a simplified "abstract view"; in the other, they map a modified abstract view, together with the original concrete tree, to a correspondingly modified concrete tree. Our design emphasiz ...

Keywords: XML, bi-directional programming, harmony, lenses, view update problem

16 Human and Social Factors of Software Engineering (HSSE): Supporting distributed



software design meetings: what can we learn from co-located meetings?

Uri Dekel

May 2005 ACM SIGSOFT Software Engineering Notes, Proceedings of the 2005 workshop on Human and social factors of software engineering HSSE '05, Volume 30 Issue 4

Publisher: ACM Press

Additional Information: full citation, abstract, references, citings, index Full text available: pdf(125.07 KB)

Although virtual conferencing tools have been successfully used in executive meetings, current tools appear inadequate for the needs of software designers. As a result, while distributed code writing is becoming widespread, almost all software design meetings are still carried out face-to-face incurring costs that undermine the potential of distributed software development. Our research strives to build successful tools for supporting distributed software design meetings. To do so, we must first ...

## 17 Characterizing a national community web



Daniel Gomes, Mário J. Silva

August 2005 ACM Transactions on Internet Technology (TOIT), Volume 5 Issue 3

Publisher: ACM Press

Full text available: pdf(364.77 KB)

Additional Information: full citation, abstract, references, citings, index terms

This article presents a characterization of the community Web of the people of Portugal. We defined criteria for delimiting this Web based on our past experience of crawling pages related to Portugal and collected over 3.2 million documents from 46,000 sites satisfying those criteria. Our characterization was derived from this crawl. We describe the rules that we established for defining the boundaries of this community Web and the methodology used to gather statistics. Statistics cover the numb ...

Keywords: Portuguese Web, Web characterization, Web communities, Web measurements

## 18 Principled design of the modern Web architecture



Roy T. Fielding, Richard N. Taylor

May 2002 ACM Transactions on Internet Technology (TOIT), Volume 2 Issue 2

Publisher: ACM Press

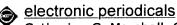
Full text available: pdf(335.47 KB)

Additional Information: full citation, abstract, references, citings, index

The World Wide Web has succeeded in large part because its software architecture has been designed to meet the needs of an Internet-scale distributed hypermedia application. The modern Web architecture emphasizes scalability of component interactions, generality of interfaces, independent deployment of components, and intermediary components to reduce interaction latency, enforce security, and encapsulate legacy systems. In this article we introduce the Representational State Transfer (REST) arc ...

Keywords: Network-based applications, REST, World Wide Web

19 <u>Document interaction: Saving and using encountered information: implications for</u>



Catherine C. Marshall, Sara Bly

April 2005 Proceedings of the SIGCHI conference on Human factors in computing systems CHI '05

Publisher: ACM Press

Full text available: pdf(471.74 KB)

Additional Information: full citation, abstract, references, citings, index terms

As part of a focus on electronic publications, we undertook an exploratory study of how people saved and used the information they encountered while reading. In particular, we wanted to understand the role of clipping and whether it would be a necessary form of interaction with electronic publications. We interviewed 20 diverse individuals at home and at work, bringing together narrative accounts and physical and digital examples to investigate how people currently collect and use clippings from ...

Keywords: clipping, design, digital libraries, electronic publications, field study, reading

<sup>20</sup> Merging interactive visualizations with hypertextbooks and course management Guido Rößling, Thomas Naps, Mark S. Hall, Ville Karavirta, Andreas Kerren, Charles Leska,





Andrés Moreno, Rainer Oechsle, Susan H. Rodger, Jaime Urquiza-Fuentes, J. Ángel Velázquez-Iturbide

June 2006 ACM SIGCSE Bulletin, Working group reports on ITiCSE on Innovation and technology in computer science education ITiCSE-WGR '06, Volume 38 Issue 4 Publisher: ACM Press

Full text available: pdf(574.51 KB) Additional Information: full citation, abstract, references, index terms

As a report of a working group at ITiCSE 2006, this paper provides a vision of how visualizations and the software that generates them may be integrated into hypertextbooks and course management systems. This integration generates a unique synergy that we call a Visualization-based Computer Science Hypertextbook (VizCoSH). By borrowing features of both traditional hypertextbooks and course management systems, VizCoSHs become delivery platforms that address some of the reasons why visualizations ...

**Keywords**: animation, hypertextbooks, pedagogy, visualization

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Relevance scale

Hypertext'91 trip report

Lynda Hardman

July 1992 ACM SIGCHI Bulletin, Volume 24 Issue 3

**Publisher: ACM Press** 

Full text available: pdf(976.62 KB) Additional Information: full citation, abstract, index terms

This was the third US-based hypertext conference (following on from the '87 and '89 conferences) with 575 participants, 450 from the USA and 125 from the rest of the world.

Web engineering: Just-in-time recovery of missing web pages

Terry L. Harrison, Michael L. Nelson

August 2006 Proceedings of the seventeenth conference on Hypertext and hypermedia HYPERTEXT '06

Publisher: ACM Press

Additional Information: full citation, abstract, references, citings, index Full text available: pdf(911.47 KB)

We present Opal, a light-weight framework for interactively locating missing web pages (http status code 404). Opal is an example of "in vivo" preservation: harnessing the collective behavior of web archives, commercial search engines, and research projects for the purpose of preservation. Opal servers learn from their experiences and are able to share their knowledge with other Opal servers by mutual harvesting using the Open Archives Initiative Protocol for Metadata Harvesting (OAI-PMH). Using ...

Keywords: 404 web pages, apache web server, digital preservation

23 Core algorithms in the CLEVER system

Ravi Kumar, Prabhakar Raghavan, Sridhar Rajagopalan, Andrew Tomkins May 2006 ACM Transactions on Internet Technology (TOIT), Volume 6 Issue 2

Publisher: ACM Press

Full text available: pdf(224.95 KB) Additional Information: full citation, abstract, references, index terms

This article describes the CLEVER search system developed at the IBM Almaden Research Center. We present a detailed and unified exposition of the various algorithmic components that make up the system, and then present results from two user studies.

**Keywords:** Anchortext, Web search, hyperlinks, linear algebra, link analysis

24 Indexing and pruning: Discovering and exploiting keyword and attribute-value co-



occurrences to improve P2P routing indices

Sebastian Michel, Matthias Bender, Nikos Ntarmos, Peter Triantafillou, Gerhard Weikum, Christian Zimmer

November 2006 Proceedings of the 15th ACM international conference on Information and knowledge management CIKM '06

Publisher: ACM Press

Full text available: pdf(477.86 KB) Additional Information: full citation, abstract, references, index terms

Peer-to-Peer (P2P) search requires intelligent decisions for query routing: selecting the best peers to which a given query, initiated at some peer, should be forwarded for retrieving additional search results. These decisions are based on statistical summaries for each peer, which are usually organized on a per-keyword basis and managed in a distributed directory of routing indices. Such architectures disregard the possible correlations among keywords. Together with the coarse granularit ...

Keywords: distributed IR, key co-occurrences, peer-to-peer information systems, query routing

25 Informing the design of an information management system with iterative fieldwork



Victoria Bellotti, Ian Smith

August 2000 Proceedings of the conference on Designing interactive systems: processes, practices, methods, and techniques DIS '00

Publisher: ACM Press

Full text available: pdf(645.09 KB)

Additional Information: full citation, abstract, references, citings, index terms

We report on the design process of a personal information management system, Raton Laveur, and how it was influenced by an intimate relationship between iterative fieldwork and design thinking. Initially, the system was conceived as a paper-based UI to calendar, contacts, to-dos and notes. As the fieldwork progressed, our understanding of peoples practices and the constraints of their office infrastructures radically shifted our design goals away from paper-based interaction to embedded in ...

**Keywords**: design, field study, interview, iteration, personal information management

26 P1: "Yes, but does it scale?": practical considerations for database-driven information





<u>systems</u> John Russell

October 2001 Proceedings of the 19th annual international conference on Computer documentation SIGDOC '01

Publisher: ACM Press

Additional Information: full citation, abstract, references, citings, index Full text available: pdf(231.31 KB) terms

This paper explores the process of designing and implementing a database-driven system of online documentation, and putting it live on the web for customers to use. Using reallife examples, it discusses practical considerations for balancing performance, scalability, and reliability.

Keywords: Oracle, automation, categorization, database, performance, reliability, scalability, web services

27 Going native: Module-aware translation for real-life desktop applications

Jianhui Li, Peng Zhang, Orna Etzion

June 2005 Proceedings of the 1st ACM/USENIX international conference on Virtual execution environments VEE '05

Publisher: ACM Press

Full text available: pdf(584.15 KB) Additional Information: full citation, abstract, references, index terms

A dynamic binary translator is a just-in-time compiler that translates source architecture binaries into target architecture binaries on the fly. It enables the fast running of the source architecture binaries on the target architecture. Traditional dynamic binary translators invalidate their translations when a module is unloaded, so later re-loading of the same module will lead to a full retranslation. Moreover, most of the loading and unloading are performed on a few "hot" modules, which caus ...

Keywords: dynamic binary translation, dynamic loaded module, memory management, translation reuse

28 The information furnace: consolidated home control

Diomidis D. Spinellis

May 2003 Personal and Ubiquitous Computing, Volume 7 Issue 1

Publisher: Springer-Verlag

Full text available: pdf(488.36 KB) Additional Information: full citation, abstract, citings, index terms

The Information Furnace is a basement-installed PC-type device that integrates existing consumer home-control, infotainment, security and communication technologies to transparently provide accessible and value-added services. A modern home contains a large number of sophisticated devices and technologies. Access to these devices is currently provided through a wide variety of disparate interfaces. As a result, end users face a bewildering array of confusing user-interfaces, access modes a ...

Keywords: Automation, Consumer electronics, Home-control, Multi-modal interfaces

29 Continuations from generalized stack inspection

Greg Pettyjohn, John Clements, Joe Marshall, Shriram Krishnamurthi, Matthias Felleisen September 2005 ACM SIGPLAN Notices, Proceedings of the tenth ACM SIGPLAN international conference on Functional programming ICFP '05, Volume 40 Issue 9

**Publisher: ACM Press** 

Full text available: pdf(213.07 KB) Additional Information: full citation, abstract, references, index terms

Implementing first-class continuations can pose a challenge if the target machine makes no provisions for accessing and re-installing the run-time stack. In this paper, we present a novel translation that overcomes this problem. In the first half of the paper, we introduce a theoretical model that shows how to eliminate the capture and the use of first-class continuations in the presence of a generalized stack inspection mechanism. The second half of the paper explains how to translate this mode ...

Keywords: A-normal form, continuation-passing style, continuations, defunctionalization, scheme, stack inspection, web programming

30 Ambiguous intentions: a paper-like interface for creative design Mark D. Gross, Ellen Yi-Luen Do





November 1996 Proceedings of the 9th annual ACM symposium on User interface software and technology UIST '96

Publisher: ACM Press

Additional Information: full citation, references, citings, index terms Full text available: pdf(1.20 MB)

Keywords: ambiguity and imprecision, design environments, drawing, graphical techniques, pen based systems

31 Redesigning the questioning, discussion, and document processes

Munir Mandviwalla, Anat Hovav

April 1996 Proceedings of the 1996 ACM SIGCPR/SIGMIS conference on Computer personnel research SIGCPR '96

Publisher: ACM Press

Full text available: pdf(1.15 MB) Additional Information: full citation, references, index terms

Keywords: Internet, World Wide Web, business process redesign, communication, document management, education, electronic mail, learning, newsgroups, processes

32 Long papers: recommendation and instruction: Improving proactive information



systems

Daniel Billsus, David M. Hilbert, Dan Maynes-Aminzade

January 2005 Proceedings of the 10th international conference on Intelligent user interfaces IUI '05

**Publisher: ACM Press** 

Additional Information: full citation, abstract, references, citings, index Full text available: pdf(833.30 KB) terms

Proactive contextual information systems help people locate information by automatically suggesting potentially relevant resources based on their current tasks or interests. Such systems are becoming increasingly popular, but designing user interfaces that effectively communicate recommended information is a challenge: the interface must be unobtrusive, yet communicate enough information at the right time to provide value to the user. In this paper we describe our experience with the FXPAL Bar, ...

**Keywords**: agents, context, proactive recommendations

33 Learning and using the cognitive walkthrough method: a case study approach

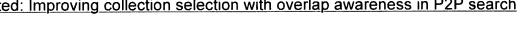
Bonnie E. John, Hilary Packer

May 1995 Proceedings of the SIGCHI conference on Human factors in computing systems CHI '95

Publisher: ACM Press/Addison-Wesley Publishing Co.

Full text available: html(50.24 KB) Additional Information: full citation, references, citings, index terms

34 Distributed: Improving collection selection with overlap awareness in P2P search engines



Matthias Bender, Sebastian Michel, Peter Triantafillou, Gerhard Weikum, Christian Zimmer August 2005 Proceedings of the 28th annual international ACM SIGIR conference on Research and development in information retrieval SIGIR '05

**Publisher: ACM Press** 

Full text available: pdf(247.19 KB)

Additional Information: full citation, abstract, references, citings, index

Collection selection has been a research issue for years. Typically, in related work, precomputed statistics are employed in order to estimate the expected result quality of each collection, and subsequently the collections are ranked accordingly. Our thesis is that this simple approach is insufficient for several applications in which the collections typically overlap. This is the case, for example, for the collections built by autonomous peers crawling the web. We argue for the extension of ex ...

Keywords: distributed IR, overlap estimation, peer-to-peer information systems, query routing

35 Users and interaction track: understanding user needs and perceptions: Turning the





page on navigation

Catherine C. Marshall, Sara Bly June 2005 Proceedings of the 5th ACM/IEEE-CS joint conference on Digital libraries JCDL '05

**Publisher: ACM Press** 

Full text available: pdf(2.43 MB)

Additional Information: full citation, abstract, references, citings, index

In this paper, we discuss the findings of an in-depth observational study of reading and within-document navigation and add to these findings the results of a second analysis of how people read comparable digital materials on the screen, given limited navigational functionality. We chose periodicals as our initial foil since they represent a type of material that invites many different kinds of reading and strategies for navigation. Using multiple sources of evidence from the data, we first char ...

**Keywords**: browsing, complex documents, electronic periodicals, encountered information, field study, navigation, reading

36 Quantifying the performance of garbage collection vs. explicit memory management



Matthew Hertz, Emery D. Berger

October 2005 ACM SIGPLAN Notices, Proceedings of the 20th annual ACM SIGPLAN conference on Object oriented programming, systems, languages, and applications OOPSLA '05, Volume 40 Issue 10

Publisher: ACM Press

Full text available: pdf(1.51 MB)

Additional Information: full citation, abstract, references, citings, index terms

Garbage collection yields numerous software engineering benefits, but its quantitative impact on performance remains elusive. One can compare the cost of conservative garbage collection to explicit memory management in C/C++ programs by linking in an appropriate collector. This kind of direct comparison is not possible for languages designed for garbage collection (e.g., Java), because programs in these languages naturally do not contain calls to free. Thus, the actual gap between the tim ...

Keywords: explicit memory management, garbage collection, oracular memory management, paging, performance analysis, throughput, time-space tradeoff

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